

Navy Production of LRT Metrics Using LMARS Data

Presented to: DLMSO – PM PRC
Presented by: Simon A. Hernandez
NAVSUP WSS
12 March 2013

We process LMARS data to create LRT standard monthly reports and ad hoc analyses for many customers; including DOD, OPNAV, NAVSUP HQ, Fleet, and others internal and external to WSS.

Here are examples of monthly reports :

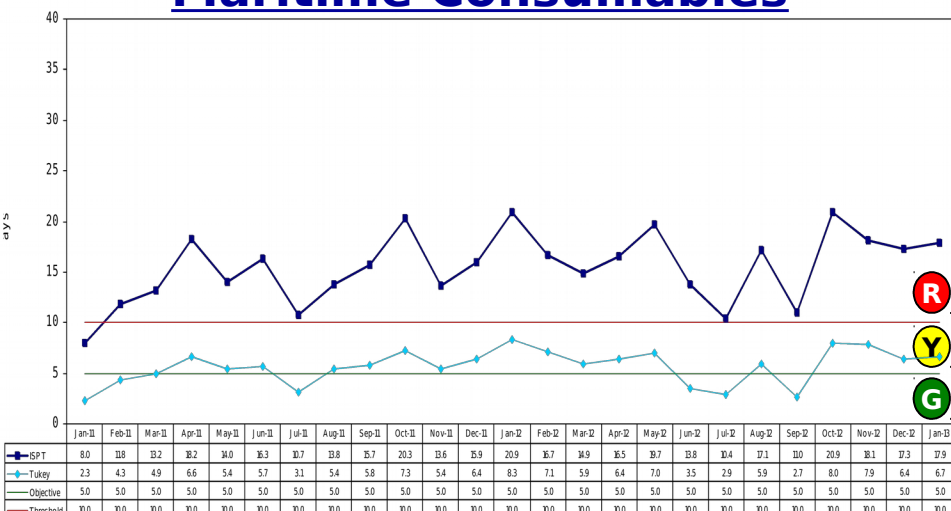
- FOT&E
- Fleet Report Cards on LRT
- CASREP Report
- LRC Aviation Report
- LRC Maritime Report
- Impact Analysis

FOT&E:

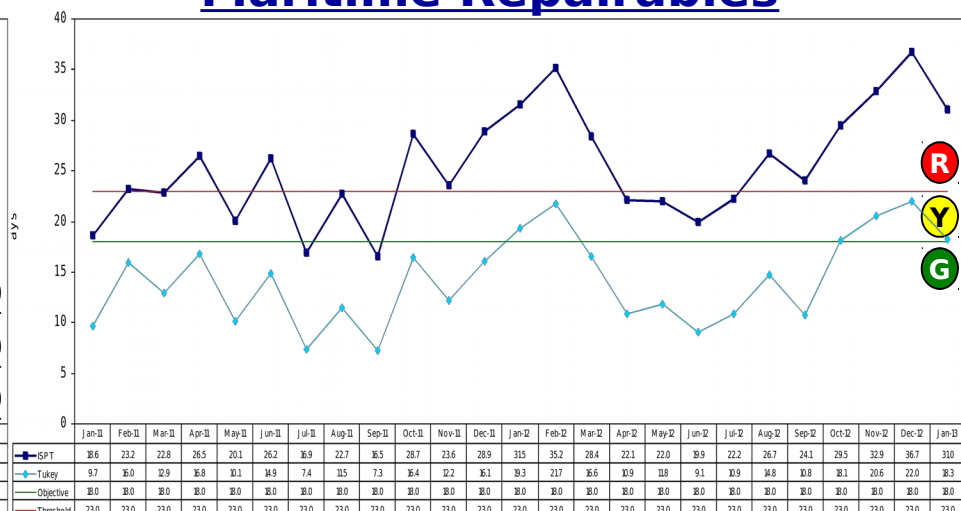
LRT ISPT was identified as a Key Performance Parameter (KPP) for the successful implementation of Navy ERP.

Follow-on Operational Test and Evaluation (April 2013) will review the performance of Navy cog ISPT to determine how well NAVSUP WSS is functioning using ERP as compared to predetermined goals and thresholds.

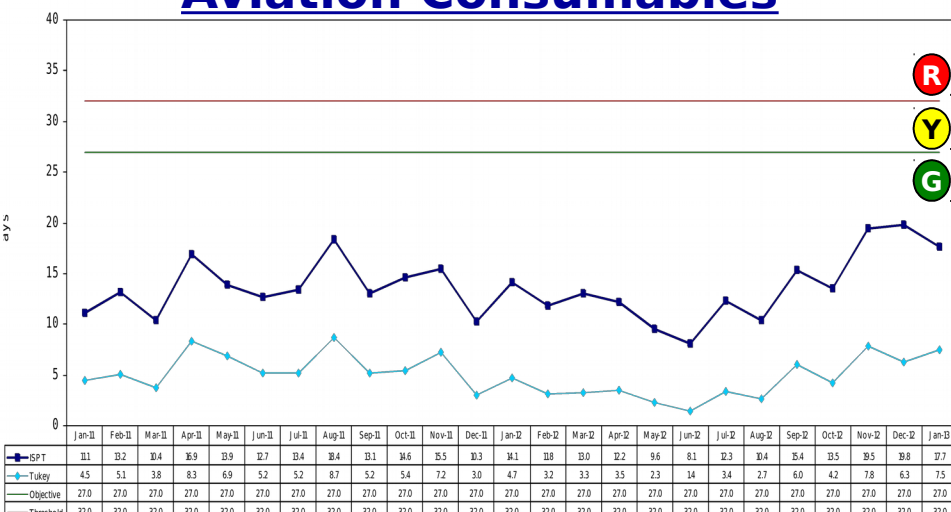
Maritime Consumables



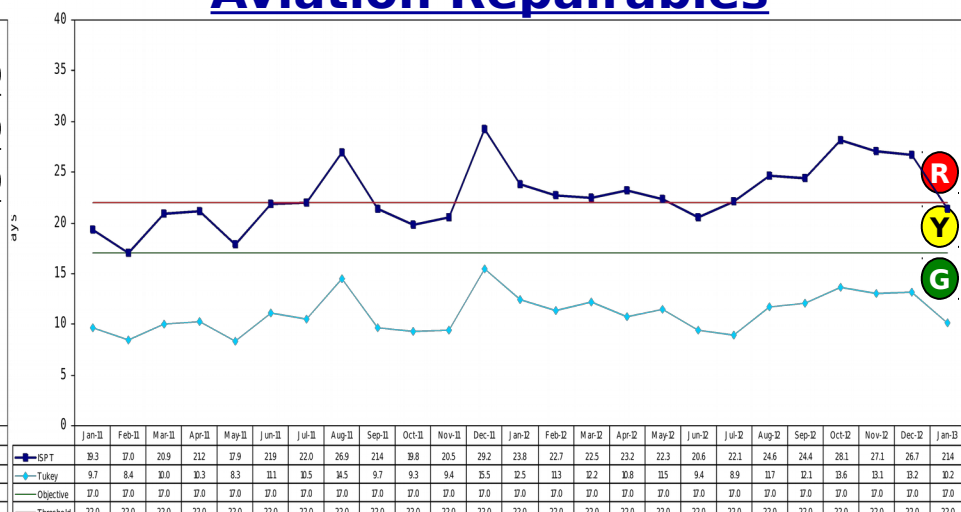
Maritime Repairables



Aviation Consumables



Aviation Repairables



Fleet Report Cards on LRT:

All 5 LRT nodes are shown in groups of 5 consecutive rows, --- for each of the ships, --- for CASREPs, NMCS/PMCS, and 'other' --- broken out by Immediate Issues vs. Backorders.

Two Fleet Report Cards on LRT are created every month:

One year window - Includes last 12 months.

Current Month - Includes the previous month only.

Fleet Report Card on LRT

Below statistics are for ALL COGs (i.e., including DLA material).

Definitions of
all 5 LRT Nodes
are given at the
bottom of this
spreadsheet.

				TOTAL #	MEDIAN											
				OF REQNS	NODE	NODE	NODE	NODE	NODE	NODE	NODE	NODE			MEAN	MEAN
				COMPLETING	VALUE	VALUE	VALUE	VALUE	VALUE	VALUE	VALUE	VALUE			W/	W/
				LRT NODE	AT	AT	AT	AT	AT	AT	AT	AT	MAX	MEAN	99TH+	95TH+
		CASREP		IN THIS	10TH	25TH	50TH	75TH	90th	95TH	99TH	99TH	NO	NO	%TILE	%TILE
		NMCS/PMCS, or	BACK or	WINDOW	%TILE	%TILE	%TILE	%TILE	%TILE	%TILE	%TILE	%TILE	VALUE	FILTER	FILTER	FILTER
LRT NODE	Ship Name	NOT HIPRI?	IMMD?		(da)	(da)	(da)	(da)	(da)	(da)	(da)	(da)	(da)	(da)	(da)	(da)
NODE 1=RST	CVN65-ENTERPRISE----03365	CASREP	BACK	12	0.2	0.3	0.6	0.7	0.8	1.5	1.5	1.5	0.6	0.5	0.5	
NODE 2=ISPT	CVN65-ENTERPRISE----03365	CASREP	BACK	7	0.0	0.0	0.0	3.1	14.1	14.1	14.1	14.1	2.7	0.8	0.8	
NODE 3=DEPOT	CVN65-ENTERPRISE----03365	CASREP	BACK	9	0.4	1.0	2.1	3.0	29.8	29.8	29.8	29.8	4.8	1.7	1.7	
NODE 4=TRANS	CVN65-ENTERPRISE----03365	CASREP	BACK	12	2.0	3.5	7.0	26.5	35.0	530.0	530.0	530.0	54.7	11.5	11.5	
NODE 5=TPT	CVN65-ENTERPRISE----03365	CASREP	BACK	18	5.0	7.0	15.0	32.0	655.0	726.0	726.0	726.0	97.6	60.6	60.6	
NODE 1=RST	CVN65-ENTERPRISE----03365	CASREP	IMMD	30	0.2	0.3	0.6	0.9	1.6	1.9	264.6	264.6	9.5	0.7	0.6	
NODE 2=ISPT	CVN65-ENTERPRISE----03365	CASREP	IMMD	28	0.0	0.0	0.0	0.1	0.1	0.8	1.6	1.6	0.1	0.1	0.0	
NODE 3=DEPOT	CVN65-ENTERPRISE----03365	CASREP	IMMD	38	0.1	0.3	0.6	0.8	1.7	3.7	4.8	4.8	0.8	0.7	0.6	
NODE 4=TRANS	CVN65-ENTERPRISE----03365	CASREP	IMMD	38	4.0	4.0	6.5	10.0	14.0	33.0	33.0	33.0	8.5	7.1	7.1	
NODE 5=TPT	CVN65-ENTERPRISE----03365	CASREP	IMMD	41	5.0	6.0	8.0	11.0	17.0	27.0	36.0	36.0	10.1	8.8	8.3	
NODE 1=RST	CVN65-ENTERPRISE----03365	NMCS/PMCS	BACK	162	0.1	0.3	0.4	0.6	1.5	2.9	10.4	43.0	1.0	0.7	0.5	
NODE 2=ISPT	CVN65-ENTERPRISE----03365	NMCS/PMCS	BACK	130	0.0	0.0	0.7	5.0	19.5	55.6	172.2	340.4	10.9	7.1	4.0	
NODE 3=DEPOT	CVN65-ENTERPRISE----03365	NMCS/PMCS	BACK	332	0.0	0.4	0.8	2.7	6.0	13.0	27.8	356.6	3.8	2.2	1.7	
NODE 4=TRANS	CVN65-ENTERPRISE----03365	NMCS/PMCS	BACK	325	3.0	4.0	5.0	7.0	11.0	14.0	24.0	179.0	7.0	6.0	5.4	
NODE 5=TPT	CVN65-ENTERPRISE----03365	NMCS/PMCS	BACK	424	5.0	7.0	11.0	20.0	42.5	59.0	107.0	586.0	19.4	16.9	14.5	
NODE 1=RST	CVN65-ENTERPRISE----03365	NMCS/PMCS	IMMD	112	0.0	0.1	0.4	0.5	1.0	3.6	29.0	61.6	1.5	0.7	0.4	
NODE 2=ISPT	CVN65-ENTERPRISE----03365	NMCS/PMCS	IMMD	318	0.0	0.0	0.0	0.0	0.2	1.3	3.3	16.0	0.2	0.1	0.0	
NODE 3=DEPOT	CVN65-ENTERPRISE----03365	NMCS/PMCS	IMMD	273	0.0	0.3	0.5	1.3	2.6	4.0	7.5	14.9	1.1	1.0	0.8	
NODE 4=TRANS	CVN65-ENTERPRISE----03365	NMCS/PMCS	IMMD	276	3.0	3.0	4.5	6.0	9.0	11.0	91.0	402.0	7.8	5.7	4.8	
NODE 5=TPT	CVN65-ENTERPRISE----03365	NMCS/PMCS	IMMD	311	4.0	5.0	7.0	9.5	17.0	25.0	89.0	403.0	10.8	8.7	7.7	
NODE 1=RST	CVN65-ENTERPRISE----03365	NOT HIPRI	BACK	2029	0.0	0.1	0.4	0.5	0.8	1.6	8.4	163.6	0.7	0.5	0.4	
NODE 2=ISPT	CVN65-ENTERPRISE----03365	NOT HIPRI	BACK	2317	0.0	0.0	0.9	9.1	36.3	82.8	243.2	1240.7	16.1	12.1	6.8	
NODE 3=DEPOT	CVN65-ENTERPRISE----03365	NOT HIPRI	BACK	2122	0.0	0.3	0.7	1.8	4.0	10.1	141.7	728.3	6.1	2.7	1.1	
NODE 4=TRANS	CVN65-ENTERPRISE----03365	NOT HIPRI	BACK	2308	4.0	5.0	10.0	18.0	36.0	62.0	176.0	652.0	19.1	15.9	12.7	
NODE 5=TPT	CVN65-ENTERPRISE----03365	NOT HIPRI	BACK	2767	7.0	11.0	19.5	43.0	113.0	161.0	488.0	1249.0	46.6	40.6	30.9	
NODE 1=RST	CVN65-ENTERPRISE----03365	NOT HIPRI	IMMD	2872	0.0	0.2	0.4	0.5	1.7	4.0	11.6	157.6	1.1	0.7	0.5	
NODE 2=ISPT	CVN65-ENTERPRISE----03365	NOT HIPRI	IMMD	4769	0.0	0.0	0.0	0.1	1.1	3.0	23.9	510.4	1.4	0.5	0.2	

- **CASREP Report:** Divided in 4 documents,
- **Stats:** contains one month of LRC summary statistics broken out in many categories. (i.e. by Enterprise, by Severity, etc.)
- **Raw Data:** This raw data file contains all Noncannibalization CASREP LRC documents for one month. These are all of the CASREP material receipts that were in-processed by DAASC during one month.
- **CAS File:** This file contains all "W" series documents (i.e., BOTH Cannibalizations and Noncannibalizations) that completed ANY of the 5 LRT nodes during one month. *This complete raw dataset is the information source for the newly developed CASREP menu-driven CIS system.*
- **Box & Whisker Charts:** showing the most recent 12 months (individually) of CASREP Requisition LRT. These slides pertain only to Non-Cannibalizations.
 - Slide 1 is for "All Cogs, Ships UICs" .
 - Slide 2 is for "All Cogs, All UICs".
 - Slide 3 is for "WSS COGS, ALL UICs".

Impact Analysis:

Reveals best and worst actor in a specific LRT node during a period of time. It shows what impact an item had in a node. This report can be done by LRC, NIIN, UIC, etc.

Impact Analysis

A1		fx	Obs			
	A	B	C	D	E	F
1	Obs	DESC	RQNS	MEAN		
2	1	VA Class Back ISPT	38	181.874		
3						
4	Obs	DESC	LRC	WIOUT_LRC	IMPACT	
5	1	VA Class Back ISPT	WVD	150.708	31.1656	
6	2	VA Class Back ISPT	WYA	157.118	24.7557	
7	3	VA Class Back ISPT	ER8	163.58	18.2939	
8	4	VA Class Back ISPT	BXK	164.154	17.7197	
9	5	VA Class Back ISPT	WVN	182.575	-0.7013	
0	6	VA Class Back ISPT	ER7	185.858	-3.9842	
1	7	VA Class Back ISPT	BL5	186.741	-4.8671	
2	8	VA Class Back ISPT	ETB	186.743	-4.8693	
3	9	VA Class Back ISPT	BL2	190.101	-8.2268	
4	10	VA Class Back ISPT	CP7	191.675	-9.8009	
5	11	VA Class Back ISPT	AAJ	194.581	-12.7068	
6	12	VA Class Back ISPT	WVA	236.892	-55.0183	
7						
8						
9						
0						

NAVSUP WSS processes the LMARS data and produces valuable analyses to various customers around the world.

LRT is a very important metric used in the analysis of the Navy's Wholesale Supply System on a day-to-day basis. Various LRT metrics are used extensively to manage how well we are filling customer requisitions.